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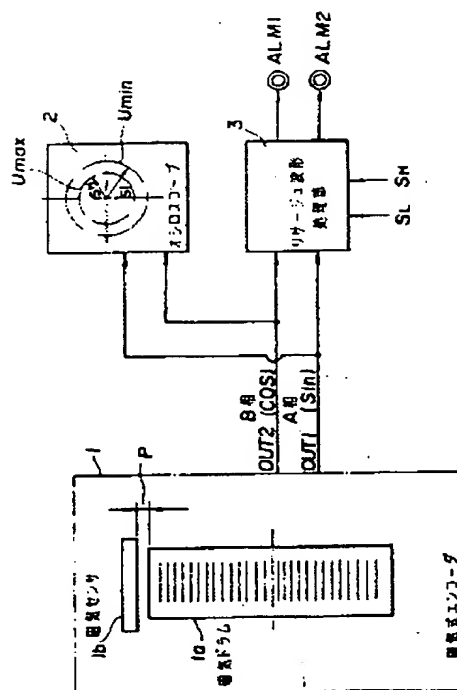
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TITLE : GAP ADJUSTING METHOD FOR
MAGNETIC ENCODER



ABSTRACT : PURPOSE: To adjust a gap of about $\pm 10\mu\text{m}$ electrically by rotating a magnetic drum, finding a Lissajour waveform by using an A-phase and a B-phase signal obtained from a magnetic sensor, and adjusting the gap by using the Lissajour waveform.

CONSTITUTION: The A-phase and B-phase signals obtained by the magnetic sensor 1b by rotating the magnetic drum 1a are inputted to a Lissajous waveform processing part 3. Then the processing part 3 finds the radii S_i ($i=1, 2, \dots$) of the Lissajour waveform at specific timing and compares the radii SH and SL of the Lissajour waveform when the proper gap is maximum and minimum. Then when $S_i < SH$, an LED which indicates that the maximum value of the proper gap is exceeded illuminates to display an alarm ALM 1. When $S_i > SL$, on the other hand, an LED indicating that the proper gap is not reached illuminates to display an alarm 2. Then the displays of the alarms ALM1 and ALM2 are used to adjust the fitting height of a sensor 1b from outside a gear box.

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